



Title		
Size	Number	Revision
A2		
Date:	14.06.2013	Sheet of
File:	C:\PROJECT_STM32100\SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
=>?: 0		#1, *1, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, S1, S2, < 75#, 25#, 2->#1, : S2#, =#7, >, LB, ?@2#, B<5=0	=>?: 0	=>?: 0	22
		BT1	BT2	Component_1	1
	Capacitor	C1, C2, C8, C10, C25, C30, C31, C32	CAPR5-4X5	Cap2	8
Cap Semi	Capacitor (Semiconductor SIM Model)	C3, C4, C5, C9, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C22, C23, C24, C27, C28, C29	C0805 - wa	Cap Semi	20
Cap polar_1	Capacitor (Wider Segeev)	C6, C7	LZ 16:5X36 4700 <: 3 x 35	Cap polar_1	2
	Polarized Capacitor (Radial)	C26	RB7.6-15	Cap Pol1	1
MUR1100E	1 AMP General Purpose Rectifier	D1, D2, D3	DO-41	Diode 1N4001	3
MUR860	Schottky Rectifier	D4	TO-220AC	Diode 18TQ045	1
12V	Tunnel Diode - RLC Model	D5	3.2X1.6X1.1	D Tunnel1	1
1N4001	1 AMP General Purpose Rectifier	D6	DO-41	Diode 1N4001	1
DB107S	Diode Bridge 1A, 1000V, SMD	D7	DB-1S	Bridge2	1
OUT+		J1	pin	pin	1
OUT-		J2	pin	pin	1
L?		L1	30x10	@AAE; L	1
Inductor	Inductor	L2	2029	Inductor	1
Header 7X2	Header, 7-Pin, Dual row	P1	HDR2X7	Header 7X2	1
: O7@H82: 8	Header, 3-Pin	P2	HDR1X3	Header 3	1
: 0280BC00	Header, 9-Pin	P3, P4	HDR1X9	Header 9	2
BC817-40	NPN General purpose Transistor	Q1	SOT23_N	BC817-40	1
IRF9540N	HEXFET Power MOSFET	Q2	TO-220AB	IRF9540N	1
IRF1540N	HEXFET Power MOSFET	Q3	TO-220_FullPak	IRF1540N	1
BC807-40	PNP General purpose Transistor	Q4	SOT23_N	BC807-40	1
BC846	NPN General purpose Transistor	Q5, Q6, Q7, Q8, Q9	SOT23_N	BC846	5
Resistor 0805		R1, R4, R5, R6, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39	2012[0805] - wa	Resistor 0805	35
Resistor 1W 15-16	15-16 @2-; >G<K5 ?@#78=>=K5 @78AB->@K	R2	15-16 _1W-5 - WA	Resistor 1W	1
Res 0.5W	Resistor 0.5W	R3	OMLT 0.5W	Res2 0.5W	1
1k	Metal Oxide Film Resistor, 0.1 Ohm to 100k Ohm Range, 2% and 5% Tolerance, 2 W	R7	R12x4	ERG2	1
0.1 Om	Metal (Oxide) Film Fuse Resistor, Axial Leads, 0.33 Ohm to 3.3k Ohm Range, 5% and 10% Tolerance, 3 W	R24	R22x9.5	ERQ3C	1
Component_1		Relay1	15x19	Component_1	1
BV E1 303 2030	Three-Terminal Medium Current Positive Voltage Regulator	T1	33x27	Component_1	1
MC78M05CT	Three-Terminal Medium Current Positive Voltage Regulator	U1, U5	221A-09	MC78M05CT	2
LM358L	Low-Cost, 300 MHz, Rail-to-Rail Amplifier	U2, U4	SO-8_N	AD8062AR	2
STM32F100C8T6	STM32 ARM-based 32-bit MCU with 128 Kbytes Flash, 48-pin LQFP, Industrial Temperature	U3	LQFP48_N	STM32F103CBT6	1
ICL7660	CMOS Voltage Converter	U6	NSO8_N	ICL7662CBA	1
	Three-Terminal Adjustable Output Positive Voltage Regulator	U7	318E-04	LM317MBSTT3	1
Component_1		X1, X2, X3	2pin	Component_1	3
8 3F		Y1	20@F	20@F	1
32.768 3F	Crystal Oscillator	Y2	R38	XTAL	1
Zp		Zp1	B1	Beep	1